

WHAT IS CLAIMED IS:

1. A cathode ray tube with an electron gun comprising:
a triode portion having a cathode;
first and second electrodes for controlling and accelerating electron beams emitted from the cathode;
and a plurality of focus electrodes for focusing the electron beams;
wherein a ratio of a vertical size to a horizontal size of an electron beam passing hole on the first electrode ranges from 1.5 to 4.3.
2. The cathode ray tube of claim 1, wherein the ratio of the horizontal size to the vertical size of the electron beam passing hole on the first electrode ranges from 1.9 to 3.0.
3. The cathode ray tube of claim 1, wherein the vertical size of the electron beam passing hole on the second electrode is great than a horizontal size of the hole.
4. The cathode ray tube of claim 3, wherein a ratio of a vertical size to a horizontal size of an electron beam passing hole on the second electrode is greater than or equal to 1.5.
5. The cathode ray tube of claim 1, wherein the electron beam passing hole on the first electrode has a different size on a first side and on a second side, and a ratio of a vertical size to a horizontal size of the electron beam passing hole on the first side is less than a ratio of a vertical size to a horizontal size of the electron beam passing hole on the second side.
6. The cathode ray tube of claim 1, wherein the triode portion is formed in a manner that the electron beams cross over in a horizontal direction only.

7. The cathode ray tube of claim 1, wherein the electron beam passing hole on the first electrode is rectangular.

8. The cathode ray tube of claim 1, wherein the electron beam passing hole on the second electrode is rectangular.

9. The cathode ray tube of claim 1, wherein a vertical size of the electron beam passing hole on the first electrode near the cathode side is greater than or equal to a vertical size of the electron beam passing hole on the second electrode near a third electrode side.

10. The cathode ray tube of claim 1, wherein a dynamic voltage is applied to at least one of the plurality of focus electrodes.

11. The cathode ray tube of claim 1, wherein an electron beam passing hole on a third electrode among the plurality of focus electrodes is circular.

12. The cathode ray tube of claim 1, wherein electron beam passing holes on the first and second electrodes are rectangular, and an electron beam passing hole on a third electrode is circular.

13. A cathode ray tube with an electron gun comprising:

a triode portion having a cathode;

a first electrode for controlling and accelerating electron beams emitted from the cathode with an electron beam passing hole that has a first horizontal and vertical size on a first side near the cathode and a second horizontal and vertical size on a second side opposite the first side;

a second electrode for controlling and accelerating electron beams emitted from the cathode with an electron beam passing hole that has a third horizontal and vertical size;

and a plurality of focus electrodes for focusing the electron beams;

wherein a ratio of the second vertical size to a second horizontal size of an electron beam passing hole on the first electrode is greater than a ratio of the first vertical size to the first horizontal size.

14. The cathode ray tube of claim 13, wherein a ratio of the first vertical size to the first horizontal size is greater than 1.5, and wherein a ratio of the second vertical size to the second horizontal size is greater than 1.5, and wherein a ratio of the third vertical size to the third horizontal size is greater than 1.5.

15. The cathode ray tube of claim 14, wherein the second electrode for controlling and accelerating electron beams emitted from the cathode with an electron beam passing hole that has a third horizontal and vertical size on a first side towards the first electrode and a fourth horizontal and vertical size on a second side opposite the first side, and wherein a ratio of the fourth vertical size to the fourth horizontal size is greater than 1.5, and the first vertical size is greater than the fourth vertical size.

16. The cathode ray tube of claim 14, wherein the ratio of the first horizontal size to the first vertical size is in the range of about 1.5 to 4.3.

17. The cathode ray tube of claim 14, wherein the ratio of the first horizontal size to the first vertical size is in the range of about 1.9 to 3.0.

18. The cathode ray tube of claim 13, wherein the electron beam passing hole on the first electrode has a different size on a first side and on a second side, and a ratio of a vertical size to a horizontal size of the electron beam passing hole on the first side is less than a ratio of a vertical size to a horizontal size of the electron beam passing hole on the second side.

19. The cathode ray tube of claim 13, wherein the triode portion is formed in a manner that the electron beams cross over in a horizontal direction only.

20. The cathode ray tube of claim 13, wherein the electron beam passing hole on the first electrode is rectangular.

21. The cathode ray tube of claim 13, wherein the electron beam passing hole on the second electrode is rectangular.

22. The cathode ray tube of claim 13, wherein a vertical size of the electron beam passing hole on the first electrode near the cathode side is greater than or equal to a vertical size of the electron beam passing hole on the second electrode near a third electrode side.

23. The cathode ray tube of claim 13, wherein a dynamic voltage is applied to at least one of the plurality of focus electrodes.

24. The cathode ray tube of claim 13, wherein an electron beam passing hole on a third electrode among the plurality of focus electrodes is circular.

25. The cathode ray tube of claim 13, wherein electron beam passing holes on the first and second electrodes are rectangular, and an electron beam passing hole on a third electrode is circular.